M. A. R. 57 (Rule 116)
Measurement Book

No. B

rial No. 2nd and Part Bill

F-BILL

425362

me of Work ..... From..... To.....

me of Contractor of nature of Agency ..... S/S. G. Venkatesh, Hal 2nd stage, Indiranagar. Bangalore

e of commencement of work ..... D.O. Recording : 18.10.2019

te	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Name of Work :- Package no. 2. C Includes. 5 Works. of R. 245.00 Lakhs						
	(1) Imp. to Roads and drains at Nanjammapalya Church to defence layout in Ward No. 06						
	(2) Imp. to Roads, drains and Asphalting to Roads at Balaji Layout Near Railway gate.						
	(3) Imp. to drains and Asphalting to Roads at Vidyaranyapura layout in Ward No. 06						
	(4) Imp. to drains and Asphalting to Roads at Bharathi Nagar (Ward No. 7) Roads						
	(5) Imp to drains and Asphalting to Roads at Shivaji Rao Nagar and Hedgewar						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	NB-code) :	006-18-000058, 006-18-000060 006-18-000061, 006,18-000062 006-18-000063				
	Work order no :	BBSR/EE/BTP/WO/10/2018-19 Dt-25-06-2018				
	P-code :	P-3111 3FC. untied grant work.				
		ABSTRACT				
(1)	Earthwork Excavation	by manual means in ordinary				

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Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Soil, involving an average horizontal throw upto 2 mts and an average lift upto 1.50m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.						
		Previous qty =			1613.89 cum		
		Present qty =			1614.13		
				Total	3228.02 m³		R. 3,07,492.00
		deduct	DPC		1613.89		
		qty now to be paid 1614.13 m³ @ 190.00/m³					

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
(2)	Providing granite slabs of selected quality, roughly dressed having a size of 4.5 cms thick and bedded in cement mortar (1:6) including drawing curing etc complete					
	Ramakrishna Roy	=				2312.68 m²
	Ramesh Roy	=				931.50
					Total	3244.18 m²
			D.P. Roy			2312.68
					net roy to be paid @	931.50 m² ₹ 92.53/m²

(Signature)

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Measurement Book

No. B 425361

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(3) Earthwork for Road works by all types of hydraulic excavators of 0.90 cum, bucket capacity, including cutting and loading in tippers, trimming bottom and side slopes in accordance with requirements of lines, grades, and cross-section, and transporting to the embankment to the lead of 1 km and complete as per specifications.						
	Previous qty :			: 2553.79 m³			
	Present qty			: 992.70			
				Tot.	1546.49 m³		

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
			D.B. qty		=	855.79 m³	
			Net qty to be paid =			992.70 m³	
					@ 148.00/m³ =		146,9
(4)	Providing and laying, spreading and compacting graded stones aggregates to wet mix macadam specifications including pre-mixing the material with water at one in mechanical mix plant consisting of mixed method of dipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory Roller to achieve the desired						

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Measurement Book

No. B 125365

Serial No. .....

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	density Complete as per specifications.						
	Previous qty :			855.79 m³			
	Present qty :			763.99 m³			
	Total			1619.78 m³			
	D.P. qty :			855.79			
	Net qty. 763.99 m³ @ 1980/-						15,12,700.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Re
		Number	Length	Breadth	Depth		Mea
1	2	3	4	5	6	7	
(5)	Providing and applying Emulsion on prepared such as WBM, WMM, and Spraying primer mechanical means Complete as per	primer coat surface of	with S.S. granular	bitumen base	including clearing Road surface at the rate of 0.60 kg/m² using specifications.		
	Previous qty =				1952.57 m²		
	Present qty =				3321.70		
	Total qty				5274.27 m²		
	deduct. P. qty				1952.57		
	@ 30.75/m²			Net qty =	3321.70 m²		

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erial No. .....

ame of Work ..... From..... To.....

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ate of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
4	Cleaning the existing black topped surface with brooms, light brushes and finally dusting, with old gunny bags, or compressed air to receive bituminous treatment - including cost of all materials, labour, hire of machineries complete as per specification.						
		Previous qty		2	10918	29 m2	
		Present qty		2	8237	8)	
				Total	19156	1042	

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Rate
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
			deduct . P. qty :			10918 : 29 M2	
			Net qty		2	8234.81 M2	
			@		3-50	/M2	2883.7
(7)	Providing and applying tack coat using 80/100 grade bitumen (VG-10) on the prepared black topped surfaces at 2.50 kg/M2 heating bitumen in boiler fitted with spray set including costs of all materials, labour charges of mechanics complete as per specification.						
			Previous qty 2			10918 : 29 M2	

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Measurement Book

No. B

125367

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Present qty :				8237.81 m^2	
		Total qty.				19156.10	
		D.P. qty				: 10918.29	
		Net qty :				8237.81 m^2	
		@				13.00/m^2	107092.00
	do						
(8)	Providing laying, bituminous Concrete using 40/60 VG Capacity 60 tmp. with mechanical paver. Co. No (30 to 45 mm)						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	crushed aggregate of specified grading premixed with 6% VG 30 grade bituminous binder and transporting the hot mix to work site laying to the required level and grade rolling with wheeled, vibratory and tandem Roller to achieve the desired density as per morth specification.					
	Provisional qty.				436.73 m³	
	Present qty.				329.51 "	
				Total qty:	766.24 m³	
				Dp. Q	436.73	
	@ 7935.00/m³			Net qty:	329.51 m³	

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No. B

Serial No. .....

425368

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(9) Providing and laying of hot applied thermoplastic compound 2.50mm thick including reflectorising glass beads at 250 gms per sqm of surface applied glass beads as per IRC:35. qty finished surface to be level, uniform and free from streaks and holes complete as per specification.						
	Provision qty	-			389.964		
	Present qty	-			Nil		

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refer to Measu
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
				Total :		389.964	
			deduct	0.5% :		389.96	
				Net qty :		Nil	
16)	Providing and constructing load bearing wall with solid concrete blocks of size 400 x 200 x 200 mm having block density not less than 1800 kg/m³ and having minimum average compressive strength 4.0 N/mm² conforming to IS 2185 (part) : 2005 and constructed with cm 1:4 as per IS 2572-2005. including costing all materials, labour charges, scaffolding curing complete as per specification.						

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erial No. .....

ame of Work ..... From ..... To .....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Provious qty - as				
			Present qty N.I.				
	(1) Providing and removing centering, shuttering, strutting Propping etc for column, pillar, post and struts, square/ rectangular/ polygon in plan including costing all materials, labour complete as per specification.						
			Provious qty <		N.I —		

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Remarks
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	a) Present slab	upto		125 f-	= 329.88 ft²		
					@ 432.50/ft²		14,267.50
	b) ——"——	above		125 f-	= 1684.224 ft²		
					@ 430.56/ft²		72,516.00
	d.o						
12)	Providing and laying in position reinforced cement concrete of design mix M 20 with OPC cement @ 320 kg/m³ with nominal down size graded granite metal coarse aggregate @ 0.694 m³ and fine aggregate @ 0.464 m³ with superplasticisers @ 3 l/m³ conforming to IS 9103-1999 reaffirmed 2008 machine mixed, concrete laid in layers not exceeding						

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No. B

125370

Name of Work ..... From ..... To .....

Name of Contractor or nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	12 cms thick Vibrated for all works in foundations for footings, pedestals, retaining walls, dam walls, (any thickness) in steel reinforced platforms, columns, pillars, posts, struts, buttressing bed blocks, anchor blocks, and plinth etc complete.						
	Foundation :					N.I	
	Footings : Upto 12 cms				71.66	m^3 @ 6992.50/-	5,01,083.00
	" Above 12 cms :				199.27	m^3 @ 7071.34/-	14,09,106.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
13]	Providing TMT steel reinforcement for RCC work including straightening cutting, bending, hooking, placing in position, lapping and or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design, costing material, labour & use of machinery complete as per specification.						
	Previous qty = Nil						
	Present qty = = 12 Mt.				3.59 Tonnes @ 74925.00/MT		26898
			alle = 12 Mt.		12.42		8892
						@ 7129807/MT	

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No. B

...ial No.

...me of Work .... From .... To ....

...me of Contractor of nature of Agency ....

...te of commencement of work ....

...ate	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	M) Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement 240 kgs, with 40mm nominal size graded granite metal coarse aggregate @ 0.885 m³ machine mixed concrete laid in layers not exceeding 15cm thick well compacted in found including cost of all materials, labour, hire of machinery, curing etc complete as per specification						
	Previously ...				—	nil —	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Rem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	Present qty. upto 125 m -				286.36 m³	5883.35 ₹	16,84
	Beyond 125 m -				21.76 m³	₹ 5936.11	129,17
15)	Cement Concrete pavement, Constn of reinforced plain cement concrete pavement thickness as per design over Prepared sub-base with OPC cement or any other type as per clause 1051.22 design mix M-20/M-30 with 25 mm down size graded granite metal Coarse aggregate and fine aggregate with superplasticiser @ 3 lts confirming to IS-9103-1999 - Re-affirmed - 2008, mixed in a Concrete of						

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No. B 425372

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	not less than 0.60 m^3 capacity and appropriate weigh batches as per design, laid in approved side form work (steel channel, laying and fixing of 125 microns thick polythene film wedges, steel plates including leveling at form works as per drawing) spreading the concrete in shovels, rockers, Compacted using needle, screed and plate vibrators and finished to a continuous operation etc complete as per specifications						
		Previously 2				Nil	

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
			Present qty : 114.36 m^3 @ 6059.75/-				
16)	Vacuum dewatering with vacuum pump and ducting material complete with skid floater chamber with floating disc including casting generator, running machinery, steady vibrating power floater blade at disc etc with dry land and lift						
			Previous qty : nil				
			Present qty : 1393.80 m^2 @ 106.2/- m^2				

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No. B 125372

erial No. .....

ame of Work ..... From..... To.....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

ate	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	not less than 0.60 m^3 capacity and appropriate weigh batching as per design, laid in approved side forms were (steel channel, laying and tray of 125 microns thick polythen film wedges, steel plates including leveling & finishing as per drawing) spreading the concrete in shards, rectem, Compacted using needle, screed and plate vibrator and finished to a continuous operation etc complete as per specification						
		Previously 2			Nil		

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No. B 125377

Serial No .....

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(1) BIRL Cost of embankment with material gravel/laterite soil all leads, transporting to site spreading grading to required slope and compacting to meet requirement table 300-2 Complete as per specifications (including costing gravel/laterite Charges and compaction by vibrating roller to 95% of proctor density Previous qty = - Nil - Present qty = 994.38 m³ @ 382.33/m³						R. 3,80,181.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Remarks
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
				Total Rs		1,24,82,844/-	

Certificate

(1) certified that the contractor has work done satisfactorily

(2) The contractor has removed the debris from site

(3) there is no any dept. materials issued to by BTSMP

CE FC

18/10/2019

18.10.2019